Name:

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Geometry, Period

Due Date: Thu, 5 Nov 2015

**Geometry**

**Homework**



|  |  |
| --- | --- |
| In the diagram, Δ*EFG* ≅ Δ*OPQ.* Complete the statement.   1. ≅ \_\_\_\_\_   *EF*   1. ∠*P* ≅ \_\_\_\_\_ 2. ∠*G* ≅ \_\_\_\_\_ 3. *m*∠*O* = \_\_\_\_\_ 4. *QO* = \_\_\_\_\_ 5. Δ*GFE* ≅ \_\_\_\_\_ | |
| 7. Find the value of x. CB ≅ ED | 8. Given Δ *ABC* ≅ Δ*DEF* , find the value of x and y. |

**Directions: Use A T-chart proof ( statement | reason OR S | R ) to justify which triangles are congruent.   
You must COLOR-CODE the angles or sides that you are using to make your proof.**

|  |  |
| --- | --- |
| **Statement** | **Reason** |
| 1. ∠A ≅  2. ≅  3. ∠  4. ∆ \_\_\_\_\_\_\_\_\_\_ ≅ ∆ \_\_\_\_\_\_\_\_\_\_ | 1.  2. given  3.  4. \_\_\_ \_\_\_ \_\_\_ |

1)

A C D F

B E



2)

|  |  |
| --- | --- |
| **S** | **R** |
|  |  |

F K

G H

3)  ***(continue using proofs)***

J K

L M

Q R

S

T U



5)

A

B C D

E



